

Mississippi Transitional Refresher Course

Advanced Cardiac Resuscitation

Course Objectives

Minimum course length 8 hours

Course Description

This course provides an overview of prehospital cardiac care.

Course Competencies Stated in Performance Terms:

Upon completion of this course, the student will be able to:

1. Cognitive Objectives

1. Explain the importance of prehospital care for the cardiac patient.
2. Explain the potential impact of prehospital care on mortality and morbidity for the cardiac patient.
3. Describe the physical examination for a suspected AMI patient.
4. Explain the rationale for prompt stabilization of the cardiac patient.
5. Explain the pathophysiology for each of the following cardiac disease states:
 1. Angina
 2. Acute myocardial infarction
 3. Aortic and mitral valve disease
 4. Congestive heart failure
 5. Cardiogenic shock
 6. Dissecting aortic aneurysm
 7. Pericardial tamponade
6. Describe the general and pharmacologic management of angina and myocardial infarction. Include drug doses, routes of administration and side effects.
7. Describe the general and pharmacologic management of congestive heart failure and pulmonary edema. Include drug doses, routes of administration and side effects.
8. Describe the general and pharmacologic management of the patient in cardiogenic shock. Include drug doses, routes of administration and side effects.

9. Explain the proper sequence of events for managing a patient complaining of chest pain and shortness of breath. Include assessments and interventions and describe the point at which transport is indicated.
10. Explain the proper sequence of events for managing a patient with suspected aortic dissection. Include assessments and interventions and describe the point at which transport is indicated.
11. Explain the proper sequence of events for managing a patient with cardiogenic shock. Include assessments and interventions and describe the point at which transport is indicated.
12. Describe the procedure for setting up, attaching and utilizing a transcutaneous pacer.
13. Describe the procedure for setting up and performing synchronized cardioversion.
14. Explain the criteria you will utilize to determine whether a patient in narrow complex tachycardia will be treated as stable or unstable.
15. Describe proper assessment and management of a patient experiencing a hypertensive emergency.
16. Explain the steps of management of a patient in cardiac arrest secondary to each of the following rhythms:
 1. Ventricular fibrillation
 2. Pulseless electrical activity
 3. Asystole
17. Explain the steps of management for a patient interhospital transport.
18. Describe the general steps that should be taken prior to accepting a patient for interhospital transport.

2. Psychomotor Objectives

1. Demonstrate the procedure for applying and utilizing a transcutaneous pacemaker.
2. Demonstrate the procedure for performing synchronized cardioversion.
3. Demonstrate the procedure for applying and utilizing the 12 lead ECG machine.
4. Demonstrate the ability to effectively manage a cardiac arrest resuscitation.